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AMSAT NEWS SERVICE
ANS-182

The AMSAT News Service bulletins are a free, weekly news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS publishes news related to Amateur Radio in Space including reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

The news feed on http://www.amsat.org publishes news of Amateur Radio in Space as soon as our volunteers can post it.

Please send any amateur satellite news or reports to:
ans-editor at amsat.org.

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SB SAT @ AMSAT $ANS-182.01
ANS-182 AMSAT News Service Weekly Bulletins

AMSAT News Service Bulletin 182.01
  From AMSAT HQ KENSINGTON, MD.
DATE JULY 1, 2018
To All RADIO AMATEURS
BID: $ANS-185.01

Digital Communications Conference (DCC) Call for Papers

Technical papers are solicited for presentation at the ARRL and TAPR Digital Communications Conference (DCC) and publication in the Conference Proceedings. Annual conference proceedings are published by the ARRL. Presentation at the conference is not required for publication. Submission of papers are due by July 31st, 2018 and should
be submitted to

Maty Weinberg, ARRL
225 Main Street
Newington, CT 06111
or via the Internet to
maty at arrl.org

The ARRL and TAPR DCC is an international forum for radio amateurs to meet, publish their work, and present new ideas and techniques.

This year, the DCC is in Albuquerque, New Mexico, September 14-16. Presenters and attendees will have the opportunity to exchange ideas and learn about recent hardware and software advances, theories, experimental results, and practical applications. Topics include, but are not limited to:

- Software Defined Radio (SDR)
- Digital voice (D-Star, P25, WinDRM, FDMDV, DRMDV, G4GUO)
- Digital satellite communications
- Global position system
- Precise Timing
- Automatic Packet Reporting System (APRS)
- Short messaging (a mode of APRS)
- Digital Signal Processing (DSP)
- HF digital modes
- Internet interoperability with Amateur Radio networks
- Spread spectrum
- IEEE 802.11 and other Part 15 license-exempt systems adaptable for A mateur Radio
- Using TCP/IP networking over Amateur Radio
- Mesh and peer to peer wireless networking
- Emergency and Homeland Defense backup digital communications in Amateur Radio
- Updates on AX.25 and other wireless networking protocols
- Topics that advanced the Amateur Radio art

Go to https://tinyurl.com/y7wgm6vh to view the guidelines for paper submissions

[ANS thanks the TAPR PSR for the above information]

Invitation to the 2018 NASA AAQ Workshop - September 7, 2018

You are invited to participate in the 2018 NASA Academy of Aerospace Quality {AAQ) Workshop. This event will take place at Glenn Research Center in Cleveland, Ohio on Friday, September 7 from 8:00 AM to 4:30 PM. The event targets academics (faculty, researchers, students) involved with space related activities such as cube sat, small sat, high altitude balloon, rocket and more. It is also designed for those wishing to be involved with NASA space related projects. The event will feature speakers and a poster session.

Travel stipends from NASA are available to attendees on a limited basis and will favor those giving a presentation or poster. There is no registration charge for attending the event but registration in advance is required.

Please register at the link below by July 31.

http://spider2.eng.auburn.edu/AAQ/registration.html

The NASA Academy of Aerospace Quality is an open access virtual academy of educational modules, lessons learned, standards, case studies and more related to quality assurance for space related projects, especially those from academic based teams. The website is:

http://aaq.auburn.edu

Links to the agenda and materials from previous NASA AAQ Workshops can be found at the link below:

http://aaq.eng.auburn.edu/events

[ANS thanks Alice Smith and Jeff Smith for the above information]

China Microsatellite Symposium 2018

The China Microsatellite Symposium(CMS2018), (www.microsatsymp.com) will be held at Northwestern Polytechnical University, Xi'an China on 18th - 20th November 2018. The symposium includes keynote presentations and several sessions which will focus on the design experience, scientific missions, launch opportunities and all new technologies about microsatellites. In addition, another import session, International CubeSat and Mission Contest will be held on 20th November 2018, after which a free launch opportunity of 3U CubeSat or 1U payload capacity will be awarded to the winner of the first prize. Participants can get information and submit the works through the official website of our contest: www.cubesatcontest.org.

The submission deadlines for the abstract of CMS2018 and work of CubeSat contest are both August 31, 2018. You could submit abstract and get information on the website www.microsatsymp.com

Along with the symposium, there will also be a related exhibition, during which you can find the updated progress of CubeSat, launchers and other related technology. For exhibitors, you could also get information about booth on the website.

The event is supported by China National Space Administration, International
Astronautical Federation, Chinese Society of Astronautics and Chinese Institute
of Command and Control.

If you have any questions, please contact service at microsatsymp.com.

[ANS thanks Ray Nugent for the above information]

K4R Dry Tortugas EL84 Roving Trip on Schedule for July 6

Robert KE4AL, Rich N4ESS, and Matthew, NJ4Y will be arriving on Garden Key, EL84np in the Dry Tortugas mid-day on Friday July 6, staying all day Saturday, and then leaving Sunday morning July 8.

The team will be using the callsign K4R, and all logs will be uploaded to LOTW after the trip. Paper cards will be available on request via NJ4Y. They will also be able to tweet via a satellite messenger from the island, to our public twitter account at twitter.com/k4r_EL84

The K4R QRZ page is up to date with our info, as well as k4r2018.com. Their goal is to work anyone within ~7500km who needs EL84 on satellites. Check out the pass listing link at the above web pages and let them know if you have a special schedule request from the outer reaches of our range, especially in EU and South America.

[ANS thanks Matthew, NJ4Y for the above information]

UPCOMING ARISS CONTACTS

Pearl Technology STEM Academy, Peoria Heights, IL, direct via W9DWJ

The ISS callsign is presently scheduled to be NA1SS

The scheduled astronaut is Serena Aunon-Chancellor KG5TMT

Contact is a go for: Mon 2018-07-02 15:35:42 UTC

Kardinal-Frings-Gymnasium, Bonn, Germany, direct via DLØIL

The ISS callsign is presently scheduled to be DPØISS

The scheduled astronaut is Alexander Gerst KF5ONO

Contact is a go for: Tue 2018-07-03 08:32:16 UTC

ARISS is always glad to receive listener reports for the above contacts. ARISS thanks everyone in advance for their assistance. Feel free to send your reports to aj9n(a)amsat.org or aj9n(a)aol.com.
Listen for the ISS on the downlink of 145.8Ø MHz.
All ARISS contacts are made via the Kenwood radio unless otherwise noted.
Several of you have sent me emails asking about the RAC ARISS website and
not being able to get in. That has now been changed to

http://www.ariss.org/
Note that there are links to other ARISS websites from this site.
Looking for something new to do? How about receiving DATV from the
ISS?
If interested, then please go to the ARISS-EU website for complete
details. Look for the buttons indicating Ham Video.

http://www.ariss-eu.org/
If you need some assistance, ARISS mentor Kerry N6IZW, might be able
to provide some insight. Contact Kerry at kbanke(a)sbcglobal.net

ARISS congratulations the following mentors who have now mentored
over 100
schools:

Francesco IKØWGF with 132

Satoshi 7M3TJZ with 129

Gaston ON4WF with 123

Sergey RV3DR with 103
The webpages listed below were all reviewed for accuracy. Out of
date
webpages were removed and new ones have been added. If there are
additional
ARISS websites I need to know about, please let me know.

Note, all times are approximate. It is recommended that you do your
own
orbital prediction or start listening about 10 minutes before the
listed
time.
All dates and times listed follow International Standard ISO 8601
date and
time format YYYY-MM-DD HH:MM:SS
The complete schedule page has been updated as of 2018-06-28 19:30
UTC.
Here you will find a listing of all scheduled school contacts, and
questions, other ISS related websites, IRLP and Echolink websites,
and
instructions for any contact that may be streamed live.

http://www.amsat.org/amsat/ariss/news/arissnews.rtf

http://www.amsat.org/amsat/ariss/news/arissnews.txt

Total number of ARISS ISS to earth school events is 1234.
Each school counts as 1 event.
Total number of ARISS ISS to earth school contacts is 11821.
Each contact may have multiple schools sharing the same time slot.
Total number of ARISS supported terrestrial contacts is 47.

A complete year by year breakdown of the contacts may be found in the
file.
http://www.amsat.org/amsat/ariss/news/arissnews.rtf

Please feel free to contact me if more detailed statistics are needed.

The following US states and entities have never had an ARISS contact:
Delaware, South Dakota, Wyoming, American Samoa, Guam, Northern
Marianas Islands, and the Virgin Islands.
QSL information may be found at:
http://www.ariss.org/qsl-cards.html

ISS callsigns: DPØISS, IRØISS, NA1SS, OR4ISS, RSØISS
The successful school list has been updated as of 2018-06-28 19:30
UTC.

http://www.amsat.org/amsat/ariss/news/Successful_ARISS_schools.rtf

Frequency chart for packet, voice, and crossband repeater modes
showing
Doppler correction as of 2005-07-29 04:00 UTC
http://www.amsat.org/amsat/ariss/news/ISS_frequencies_and_Doppler_cor
rection
.rtf
Listing of ARISS related magazine articles as of 2006-07-10 03:30 UTC.
http://www.amsat.org/amsat/ariss/news/ARISS_magazine_articles.rtf
Check out the Zoho reports of the ARISS contacts
https://reports.zoho.com/ZDBDataSheetView.cc?DBID=412218000000020415

Exp. 55 on orbit

Drew Feustel

Oleg Artemyev

Ricky Arnold KE5DAU

Exp. 56 on orbit

Serena Aunon-Chancellor KG5TMT

Alexander Gerst KF5ONO

Sergei Propopev

[ANS thanks Charlie Sufana, AJ9N for the above information]

AMSAT Rover Award Updates

AMSAT Director of Contests and Awards, Bruce Paige, KK5DO, says that
congratulations are in order for the newest Rover Award operators,
Chris, AA8CH, for earning award #024; and, Robert, WY7AA for earning
Award #025.

The AMSAT Rover award is granted to stations who achieve a combined
25 points using any combination of a list of achievements during
their roving operations via amateur radio satellites. All of these
combinations, including instructions of how to apply are posted at:
https://www.amsat.org/amsat-rover-award/ - or from the main page -
www.amsat.org --> Services --> Awards --> AMSAT Rover Award

Examples of the point scoring include (access the Awards web page
for details of multiplier points, etc.):

+ 1 point for each grid square activated outside your home grid square
    using a single-channel FM satellite transponder
+ 2 points for each grid square activated outside your home grid square
    using a linear (SSB/CW) satellite transponder.
+ 3 points for each grid square activated outside your home grid square
    using a digital mode satellite transponder.
+ 1 additional point for added to each grid square score for activating
    a state, province, or DX entity outside your home entities
+ 5 points for for advertising your grid operation using an open and

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    public social media account, tagging @amsat or #amsat at least
        24 hours in advance of the activation.
+ 5 points for photographing your grid operation and posting them
    afterwards using an open and public social media account, tagging @amsat
or #amsat.
+ 10 points for activating a grid square while operating Maritime Mobile.
+ 15 points for 15 points for documenting your grid activation in an
     article published in the AMSAT Journal.
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AMSAT Rover Award winners to date include the following stations:

Rover	Call	Date Issued
001	AC0RA	02 Jan 2018
002	WD9EWK	05 Jan 2018
003	NJ4Y	08 Jan 2018
004	M0IDA	09 Jan 2018
005	KG5GJT	12 Jan 2018
006	EB1AO	18 Jan 2018
007	N7AGF	22 Jan 2018
008	N4YHC	29 Jan 2018
009	W0S	07 Feb 2018
010	KE0PBR	08 Feb 2018
011	K5IX	18 Feb 2018
012	AK4WQ	23 Feb 2018
013	WI7P	25 Feb 2018
014	K5ND	09 Mar 2018
015	N6UA	12 Mar 2018
016	N9IP	16 Mar 2018
017	N4UFO	04 Apr 2018
018	K7TAB	27 Apr 2018
019	K8BL	10 May 2018
020	AD0DX	16 May 2018
021	HB9WDF	28 May 2018
022	KE4AL	28 May 2018
023	KE9AJ	30 May 2018
024	AA8CH	27 Jun 2018
025	WY7AA	29 Jun 2018

[ANS thanks AMSAT Director of Contests and Awards, Bruce Paige, KK5DO
 for the above information]

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WMPLOTA 7/2 EN74 EN75 EN84 EN85 Rove

7/2/18
Objects      AOS (U) LOS Period
1. EN74 WM1432 Cadillac
 XW-2D        00:01 00:09
 XW-2F        00:05 00:13
 SO-50        00:12 00:25

2. EN74 WM2014 Houghton Lake
 SO-50        01:54 02:03   (*Low Pass Attempt)
 AO-92        02:03 02:13
 AO-73        02:32 02:38   (*Low Pass Attempt)
 Falconsat-3  02:43 02:53
 FO-29        02:45 02:55   (*Low Pass Attempt)
 AO-85        02:59 03:06   (*Low Pass Attempt)
 AO-92        03:37 03:46

3. EN74 WM5159 West Branch
 XW-2B        11:57 12:07
 AO-07        12:06 12:22
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4. EN84 WM5376 Tawas
 XW-2B        13:33 13:39   (*Low Pass Attempt)
 AO-07        14:01 14:04   (*Low Pass Attempt)
 XW-2A        14:13 14:22
 AO-73        14:15 14:26
 SO-50        14:27 14:38
 AO-92        15:05 15:14

5. EN85 WM2358 Alpena
 AO-92        16:39 16:47
 AO-91        17:16 17:30

6. EN75 WM1542 Gaylord
 AO-91        18:52 19:06
 AO-07        19:19 19:39

7. EN75 WM2417 Petosky
 XW-2C        21:49 21:58
 XW-2D        22:12 22:22
 XW-2F        22:15 22:25
 AO-85        22:15 22:28

8. EN75 WM2100 Cheboygan
 XW-2C        23:22 23:32
 AO-73        23:35 23:45
 XW-2D        23:47 23:56
 XW-2F        23:50 23:59
 AO-85        23:57 00:08

7/3/18 EN75 Holiday Style Maybe

Wish me luck on my first real rove, all stops are in a new VUCC
circle,
please work me if there is room. Manual tuning on linear birds,
please be
patient.

[ANS thanks Andrew, KE8FZT for the above information]

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VUCC Awards-Endorsements for June 2018

Here are the endorsements and new VUCC Satellite
Awards issued by the ARRL for the period June 1, 2018
through July 1, 2018.
Congratulations to all those who made the list this month!

CALL       01 Jun   01 Jul

N8HM         1054   1068
AA5PK        1011   1042
N9IP          609    618
XE1AO         584    598
WD9EWK        441    450
AA9LC         299    416
AF5CC         314    338
VA3NNA        179    300
KC9ELU        220    229
W7JSD         189    215
G0ABI         200    206
KE8FZT        175    200
PT2AP         172    200
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PS8ET         157    180
KE0PBR        New    122
W3ARD         New    119
N3ROY         New    102
AD0DX         New    101
W5PFG (DM95)  New    100
W5PFG (EM12)  New    100

If you find errors or omissions. please contact me off-list
at <mycall>@<mycall>.com
and I'll revise the announcement.

This list was developed by comparing the ARRL .pdf
listings for June 1, 2018 and July 1, 2018. It's a visual
comparison so omissions are possible.  Apologies if your
call was not mentioned.  Thanks to all those who are
roving to grids that are rarely on the birds.  They are
doing most of the work!


[ANS thanks Ron, W5RKN for the above information]

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AMSAT-NA President to attend AMSAT-UK Colloquium 2018

AMSAT-UK is very happy to announce that the dates of the next
AMSAT-UK Colloquium will be October 13-14, 2018.

The AMSAT-UK Colloquium, incorporated into the RSGB Convention,
will take place  at the Kents Hill Park Conference Centre,
Timbold Drive, Milton Keynes, MK7 6BZ.

The AMSAT-UK Committee are pleased to announce that Joe Spier,
K6WAO will be presenting a paper entitled '50 Years of AMSAT and
Beyond'

AMSAT-UK invites speakers, to cover topics about Amateur satellites,
CubeSats, Nanosats, Space, High Altitude Balloons and associated
activities, for this event. Those wishing to speak should contact
Dave, G4DPZ, dave at g4dpz dot me dot uk

AMSAT-UK Colloquium web page:
https://amsat-uk.org/colloquium/

The schedule will be at
http://rsgb.org/main/about-us/rsgb-convention/rsgb-convention-
programme/

[ANS thanks AMSAT-UK for the above information]


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FP/KV1J 3 - 17 July 2018 GN17 Includes Satellite Operation

Eric,  KV1J will be active on the Sats from the French island of
Miquelon
from 3 July through 17 July as FP/KV1J. This will be his 12th trip
to the
island. He mostly operate the low bands and 6 meters. When the WX is
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good,
he will try to get outside and work the linear birds. Occasionally,
he plans
to also be on the FM birds using a pair of FT-817s and an Arrow
antenna.

Most of the time he will be grid GN17. If he is on the main island
of St
Pierre or if he can borrow a car a drive to Langlade, he will be
GN16. The
island has limited internet. His email is kv1j (at) arrl.net

More information at: http://www.kv1j.com/fp/July18.html

[ANS thanks Eric KV1J / FP/KV1J for the above information and
wishes him
success on his trip]

AMSAT BOD Nominees

The 2018 candidates, in alphabetical order by last name are:

Tom Clark, K3IO
Mark Hammond, N8MH
Scott Harvey, KA7FVV
Bruce Paige, KK5DO
Peter Portanova, W2JV

This year AMSAT-NA will be electing three voting members of the Board
of Directors. These will go to the three candidates receiving the
highest number of votes. In addition, there will be two alternates
chosen, based on the next highest number of votes received.

Ballots will be mailed to the AMSAT-NA membership by July 15, 2018 and
must be received at the AMSAT office by September 15, 2018 in order to
be counted. Those sent outside North America will go by air mail. If
you have not received your ballot package in a reasonable time for
your location, please contact the AMSAT office. Completed ballots
should be returned as promptly as possible, and those from outside
North America preferably by air mail.

Election of Board members is both an obligation as well as an
opportunity by our membership to help shape the future direction of
AMSAT. Please take the time to review the candidate statements that
will accompany the ballot and determine who you wish to see on the
Board. You have the option to vote for up to three candidates.

[ANS thanks Clayton, W5PFG for the above information and wishes him
success on his trip]

Satellite Shorts

+ Stations in the USA mid-west and Canada will have the opportunity
to hear the ISS on 145.800 MHz for a school contact with the Pearl
Technology STEM Academy, Peoria Heights, IL. This will be a direct
contact between NA1SS and W9DWJ. The scheduled astronaut is Serena
Aunon-Chancellor KG5TMT. The contact is planned for: Mon 2018-07-02
at 15:35:42 UTC. (via ARISS)

+ AMSAT has discovered a pagination problem from printer error in the May/June issue of the AMSAT Journal. Please take a look at the issue you
just received and, if you see any missing or duplicate pages, let Martha
know ASAP at the AMSAT office at martha(a)amsat.org.

+ Congrats to Sean Kutzko, KX9X, on winning the June QST Cover Plaque for his article "Get on the Satellites for ARRL Field Day."

The article has been reprinted on the AMSAT website with the ARRL's permission. Although Field Day is over for an another Year Sean's article gives good operating tips for every pass. Check it out!
https://www.amsat.org/get-on-the-satellites-for-field-day/

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In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

Primary and secondary school students are eligible for membership at one-half the standard yearly rate. Post-secondary school students enrolled in at least half time status shall be eligible for the student rate for a maximum of 6 post-secondary years in this status. Contact Martha at the AMSAT Office for additional student membership information.

73,
This week's ANS Editor,
Chris Bradley, AA0CB
aa0cb at amsat dot org